

校准证书
CALIBRATION CERTIFICATE

证书编号:

Certificate No.



J202306052087-05-0001

第 1 页 共 4 页

Page

of

委托方

Client

Energy Saver Equipment and Safety Equipment Testing
SectionElectrical Equipment Testing DivisionPower System
Research and Innovation Department

联络信息

Contact Inf.

仪器名称

Description

Spring Impact Hammer (Universal Type IK01-06) IK弹簧冲击器 (万能型IK01-06)

型号/规格

Model/Type

IK01-06

制造厂

Manufacturer

LS

出厂编号

Serial No.

LS24IK0141

管理号

Asset No.

接收日期

Receipt Date

2025年03月24日

Y M D

校准日期

Cal. Date

2025年03月27日

Y M D

发布日期

Issued Date

2025年03月27日

Y M D

批准

Approved by

张磊

张磊

审核

Inspected by

吴遥

吴遥

校准

Calibrated by

尹君

尹君

证书专用章

(Stamp)

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扫一扫验真伪

校验码: 020325

校准说明 DIRECTIONS OF CALIBRATION

证书编号: J202306052087-05-0001

第 2 页 共 4 页

Certificate No.

Page of

- 1.本实验室的质量管理体系符合ISO/IEC 17025:2017标准的要求,校准结果均可溯源至国际单位制(SI)单位。
(The quality system is in accordance with ISO/IEC 17025:2017,the calibration results are traceable to the International System of Units (SI).)
 - 2.本结果仅对本次校准样品有效。未经实验室批准,不得部分复制。如有疑问请在15个工作日内反馈。
(The result is only valid for the calibrated sample.The certificate shall not be reproduced except in full,without the written approval of our laboratory .please feedback to us within 15 days if you have any question.)
 - 3.本证书编号具有唯一性,后缀若带有“-Gx”的证书为替换证书,自发出后原证书即刻作废,修改后的证书以客户端内容为准。(Each certificate has a unique number. The suffix of "-Gx" will be added to the number as a replacement of the old version. The original certificate will be officially invalid once the new certificate number is issued.The modified certificate shall be based on the client content.)
 - 4.证书中最大允许误差、判定结果仅供参考,其中“P”代表“合格”,“F”代表“不合格”,“N/A”代表“不适用”。使用人员应结合实际测量需求,评估测量不确定度对符合性评定的影响。(MPE & judgement result in the datasheet is only for reference , "P" is "Pass" , "F" is "Fail" and "N/A" is "Not Applicable".Whereas users should evaluate the effects of MU of calibration results on conformance assessment by actual measurement.)
 - 5.校准地点、环境条件(Place and environmental conditions of the calibration):
地点: 无锡计量力学室
Place Wuxi Metrology Mechanics Room
温度: 24.2℃ 相对湿度: 58%
Temperature Relative Humidity
 - 6.建议复校时间间隔: 1年,送校单位也可按实际使用情况自主决定。
Suggested calibration interval is 1 year or it can be altered depending on the actual usage of the user.
 - 7.本次校准的技术依据及CNAS认可范围,超出范围的内容未被认可。详细认可范围请查看CNAS网站证书附件。(Reference document and accredited scope by CNAS for calibration, beyond which isn't accredited. Please see the attachment of certificate on CNAS website for details.)
- JJF 1475-2014 弹簧冲击器校准规范(C.S. for Spring Hammers) 长度: (9~11)mm 能量: (0.2~2) J

校准说明
DIRECTIONS OF CALIBRATION

证书编号: J202306052087-05-0001

第 3 页 共 4 页

Certificate No.

Page of

8. 本次校准使用的主要测量标准(Main Standards of Measurement Used in the Calibration.):

名称	编号	证书号/有效期	溯源机构	技术特征
Description	Serial No.	Certificate No./ Due Date	Traceability Institute	Technique Character
弹簧冲击器校准装置	CD011903	J202408083041- 0012 2025-08-21	广电计量检测集团 股份有限公司	$U = (0.005 \sim 0.01) J (k=2)$
数显卡尺	A20202422	J202409101323- 0039 2025-10-14	广电计量检测 (无锡)有限公 司	$MPE: \pm (0.02 \sim 0.03) mm$
图像处理万能工具显微镜	AD0028	J202412275730B- 0001 2026-02-15	广电计量检测集团 股份有限公司	$MPE: \pm (1+L/100) \mu m$
Image processing universal tool microscope				

9. 计量溯源性声明(Measurement traceability declaration.):

弹簧冲击器校准装置(CD011903)→弹簧冲击锤能量发生器(200801)→电子天平(T1001478)→砝码(广州计量检测技术研究院/GIMT)
弹簧冲击锤能量发生器(200801)→直尺(131783)→三等金属线纹尺(84019)→激光干涉仪(广东省计量科学研究院/SMC);弹簧冲击器校准装置(CD011903)→掌上天平(818621)→砝码(1511)→电子天平(B613288289)→砝码(广州计量检测技术研究院/GIMT);弹簧冲击器校准装置(CD011903)→条式水平仪/Bar level(217)→水平仪示值检定器/Calibrator for Level(455)→光学计管/Optimeter(广东省计量科学研究院/SCM);
数显卡尺(A20202422)→卡尺量块/Caliper gauge(172232)→量块(12块)/Gauge Blocks(174660)→一等量块标准装置(中国测试技术研究院/NIMTT);
图像处理万能工具显微镜/Image processing universal tool microscope(AD0028)→玻璃尺/laser ruler(2011002(85962))→激光干涉比长仪/Laser interferometric length comparator(上海市计量测试技术研究院/SIMT);

校准结果
RESULTS OF CALIBRATION

证书编号: J202306052087-05-0001

第 4 页 共 4 页

Certificate No.

Page of

1、外观及各部分相互作用: 正常normal

Appearance and the function of each part of interaction:

2、锤头球面半径校准: 符合要求meet the requirements 技术要求: (10±0.2)mm 结论: P

Calibration of Radius of sphere Technical requirements Conclusion

3、释放撞击元件所需的力: 符合要求meet the requirements 技术要求: ≤10N 结论: P

Calibration of The force required to release the impact element Technical requirements Conclusion

4、锤弹簧未压缩状态时, 锤头顶点缩进释放锤头端面的距离:

Calibration of Distance 符合要求meet the requirements 技术要求: >1mm 结论: P

5、冲击能量示值误差校准: Technical requirements Conclusion

Calibration of Impact energy:

标称值(J)	实测平均值(J)	示值误差(J)	允许误差(J)	结论 (P/F)
Nominal Value	Average Value	Error	MPE	Conclusion
0.14	0.146	-0.006	±0.014	P

备注:

Notes:

结论(Conclusion): 所校项目符合技术要求The school project meets the technical requirements

1.本报告中的扩展不确定度是由标准不确定度乘以包含概率约为95%时的包含因子 k 。

The expanded uncertainty is given in the report by the standard uncertainty multiplied by the probability of about 95% when the factor k .

1.1 冲击能量: $U_{rel}=3.0\%$ ($k=2$)

2.依据(Reference document)

JJF 1059.1-2012 测量不确定度评定与表示

(JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

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