



# 校准证书

## CALIBRATION CERTIFICATE



证书编号:  
Certificate No.

J201710305114-0001

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委托方  
Client

HK LEE HING INDUSTRY CO., LIMITED

委托方地址  
Address

See more at: <http://www.china-gauges.com/>

仪器名称  
Description

Universal Spring Hammer

型号/规格  
Model/Type

LX-T06

制造厂  
Manufacturer

HK LEE HING INDUSTRY CO., LIMITED

出厂编号  
Serial No.

JLX2017G103107

管理号  
Asset No. -----

校准日期

2017年11月04日

Date of Calibration

Y M D

样品接收日期

2017年11月02日

Date of Receipt

Y M D

批准人:  
Approved Signatory

李平 (副主任)

审核:  
Inspected by

李俊峰

校准:  
Calibrated by

黄有龙

证书专用章  
(Stamp)

地址: 广东省广州市黄埔大道西平云路163号

Address: No.163.Pingyun Rd, West of HuangPu Ave.Guangzhou.Guangdong.China

计量校准机构备案号 (The record number): [2012]粤量校S003号

联系电话 (Tel.): 020-38699960,66830999,400-602-0999

扫一扫验真伪

传真 (Fax): 020-38698685

邮政编码 (Postcode): 510656

网站 (Website): <http://www.grgtest.com>

电子邮件 (E-mail): [grgtest@grgtest.com](mailto:grgtest@grgtest.com)



校准说明  
DIRECTIONS OF CALIBRATION

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1. 本实验室出具的数据均可溯源至国家计量基准和国际单位制(SI).  
(All data issued by GRGTest are traced to National Primary Standards and International System of Units(SI).)
  2. 本结果仅对当次被测样品有效, 如有疑问请在15个工作日内反馈。(The result is ONLY valid for the tested sample, please feedback to us within 15 working 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。  
(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.)
  4. 证书中如有最大允许误差、判定结果, 仅供参考, 其中“P”代表“合格”, “F”代表“不合格”。证书中结论判定是指测得值是否符合规定要求的限定值, 而使用人员还应结合实际测量要求, 评估校准结果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" represents "Pass" and "F" represents "Fail". The judgement is made on the basis of whether the measured value conforms to the limited value specified in the regulation, whereas users should evaluate the effects of measurement uncertainty of calibration results on conformity determination associated with actual measurement.)
  5. 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。注: 详细的认可范围请查看CNAS网站中注册编号为L0446的证书附件。(Reference document and accredited scope by CNAS for calibration, beyond which isn't accredited. Please see the attachment of certificate No.L0446 on CNAS website for details.)
- JJF 1475-2014 弹簧冲击器校准规范(C.S. for Spring Hammers):冲击能力:(0.2~2)J;力值:(0.01~50)N;尺寸:(0~50)mm

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

名称 / 型号 Description / Model	编号 Serial No.	证书编号 Certificate No.	证书有效期 Due Date	技术特征 Technique Character
半径样板(48片)/(1~25)mm	C704122012	J201702136245-244-0009	2018-05-09	MPE: $\pm(0.02\sim0.042)$ mm
弹簧冲击器专用码/10N	115300	J201702136245-434-0006	2018-07-26	MPE: $\pm 0.2$ N
数显卡尺/(0~150)mm/0.01mm	0903171717	J201707113244-01-0002	2018-07-13	MPE: $\pm 0.03$ mm
弹簧冲击器校准装置/CJ-XZ	CJ010207	J201709265257-0001	2018-09-27	MPE: $\pm 3.0$ %

## 7. 校准地点、环境条件(Place and environmental conditions of the calibration):

地点 Place	广州计量力学室	温度 Temperature	23 °C	相对湿度 Relative Humidity	56 %
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8. 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.



校准结果  
RESULTS OF CALIBRATION

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1、外观及各部分相互作用: 正常

Appearance and the function of each part of interaction:

2、锤头球面半径校准: 符合要求

Calibration of Radius of sphere

技术要求: (10±0.2)mm 结论: P

Technical requirements

Conclusion

3、释放撞击元件所需的力: 符合要求

Calibration of The force required to release the impact element

技术要求: ≤10N 结论: P

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

技术要求: ≥1mm 结论: P

Technical requirements

Conclusion

5、冲击能量示值误差校准: (0.14J不在我司CNAS认可范围内)

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	0.131	+0.009	± 0.014	P
0.2	0.190	+0.010	± 0.02	P
0.35	0.341	+0.009	± 0.03	P
0.5	0.499	+0.001	± 0.04	P
0.7	0.703	-0.003	± 0.05	P
1	1.003	-0.003	± 0.05	P

备注:

Notes:

结论(Conclusion): 所校项目符合技术要求

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:  $U_{rel}=3.0\%$  ( $k=2$ )1.2 球面半径:  $U=0.1\text{mm}$  ( $k=2$ )

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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