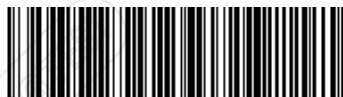


校准证书
CALIBRATION CERTIFICATE

证书编号:

Certificate No.



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of

委托方

Client

力汕电子科技(上海)有限公司

联络信息

Contact Inf.

126 Pracha Uthit Rd., Bang Mod, Thung Khru, Bangkok 10140,
Thailand

仪器名称

Description

IK Pendulum Impact Hammer Tester

型号/规格

Model/Type

IK07-11

制造厂

Manufacturer

LISUN GROUP

出厂编号

Serial No.

SOLS20240119-A4

管理号

Asset No.

接收日期

Receipt Date

2024年08月01日

Y M D

校准日期

Cal. Date

2024年08月01日

Y M D

发布日期

Issued Date

2024年08月01日

Y M D

批准

Approved by

陈亚东, 陈亚东

审核

Inspected by

李俊杰, 李俊杰

校准

Calibrated by

李敏, 陈志祥, 李敏 陈志祥

证书专用章

(Stamp)

总部地址(Headquarters Add.): 广东省广州市黄埔大道西平云路163号

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扫一扫验真伪

校准说明 DIRECTIONS OF CALIBRATION

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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)单位和社会公用计量标准。(The quality system is in accordance with ISO/IEC 17025:2017,the calibration results are traceable to the International System of Units (SI) and public standard instruments.)

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。(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:
Place Guangzhou precision measurement room

温度: 22℃ 相对湿度: 56%
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 1445-2014 落锤式冲击试验机校准规范 (C. S. for Falling Weight Impact Testing Machines) 长度:
(0~5000)mm 能量: (0.01~500)J 速度: (1~10)m/s 质量: (0~30)kg

JJF(吉)19-2009 检验夹具校准规范 (C. S. for Test Fixtures) 长度(Length): (0~160)m 角度(Angle): 0~360
°表面粗糙度(Surface roughness): Ra:(0.012~6.3)μm

校准说明
DIRECTIONS OF CALIBRATION

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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
Steel ruler	164064	J202309193661-0004 2024-09-19	GRGMETROLOGY&TESTGR OUP.,LTD.	MPE: $\pm (0.08\sim0.20)$ m
Universal tool microscope for image processing	AD0028	J202309193661-0002 2024-10-14	GRGMETROLOGY&TESTGR OUP.,LTD.	MPE: $\pm(1+L/100)\mu\text{m}$
Digital calipers	1165032	J202310175359-0038 2024-10-26	GRGMETROLOGY&TESTGR OUP.,LTD.	MPE: $\pm (0.03\sim0.04)$ mm
Electronic balance	BL131170579	J202401094789-0003 2025-01-08	GRG METROLOGY & TEST(WUXI) CO., LTD.	Level II

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

Electronic balance (BL131170579) → F1 grade weights (0082) → Weight (Wuxi Institute of Inspection, Testing and Certification)

校准结果 RESULTS OF CALIBRATION

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1、外观以及一般性检查: 符合要求

In view of External and Generality check :

2、落锤冲击高度校准:

Impact height calibration:

标称值	允许误差	实测平均值	不确定度
Nominal	MPE	Measured average	Uncertainty
(mm)	(mm)	(mm)	$U(k=2)$
100	$\pm 1\text{mm}$	99.9	0.3mm
200	$\pm 2\text{mm}$	199.8	0.3mm
300	$\pm 3\text{mm}$	299.8	0.3mm
400	$\pm 4\text{mm}$	399.7	0.3mm
500	$\pm 5\text{mm}$	499.5	0.3mm

3、落锤锤头尺寸校准:

Size calibration:

锤头型号	标称值	允许误差	实测平均值	不确定度
Type	Nominal	MPE	Measured average	Uncertainty
	(mm)	(mm)	(mm)	$U(k=2)$
2J	64	± 0.3	63.95	0.05mm
	$\phi 35$	± 0.3	34.97	0.05mm
	R25	± 0.2	24.96	0.02mm
	7	± 0.2	6.98	0.05mm
5J	75	± 0.3	74.95	0.05mm
	$\phi 60$	± 0.3	59.94	0.05mm
	R6	± 0.1	5.96	0.02mm
	R25	± 0.2	24.95	0.02mm
10J	117	± 0.3	116.94	0.05mm
	$\phi 80$	± 0.3	79.91	0.05mm
	20	± 0.2	19.95	0.05mm
	R50	± 0.3	49.93	0.02mm
20J	100	± 0.3	99.94	0.05mm
	$\phi 100$	± 0.3	99.92	0.05mm
	20	± 0.2	19.91	0.05mm
	R10	± 0.2	9.93	0.02mm
	R50	± 0.3	49.93	0.02mm

校准结果
RESULTS OF CALIBRATION

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4、落锤质量校准:

Hammer mass calibration:

锤头型号	标称值	允许误差	实测平均值	不确定度
Type	Nominal	MPE	Measured average	Uncertainty
	(g)	(g)	(g)	$U(k=2)$
2J	500	± 10	498	1g
5J	1700	± 34	1703	2g
10J	5000	± 100	5013	3g
20J	5000	± 100	5031	3g

备注:

Notes:

结论(Conclusion): 按校准结果使用

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 .

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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