



校准证书

CALIBRATION CERTIFICATE



扫一扫验真伪

1GA25091632921-0002

校验码:A251B587

证书编号:

Certificate No.

委托方:

Client

CESMEC SA

委托方地址:

Address

AVDA.MARATHON NRO.2595 MACUL, SERVICIOS DE INGENIERIA, SANTIAGO 7810552, CHILE

仪器/样品名称:

Description

IEC 61032 Standard Articulated Test Probe with 10N Thrust

型号/规格:

Model/Type

SMT-02T10

制造厂商:

Manufacturer

LISUN GROUP

出厂编号:

Serial No.

/

管理号:

Asset No.

LS2025038102

样品接收日期:

Date of Receipt

2025-09-16

Y M D

结果:

Conclusion

所校准项目合格(Passed at Calibration Items)

校准日期:

Date of Calibration

2025-09-17

Y M D

建议下次校准日期:

Due Date

2026-09-16

Y M D

校准:

Calibration by

吴娟

吴娟

审核:

Inspected by

黄子铭

黄子铭

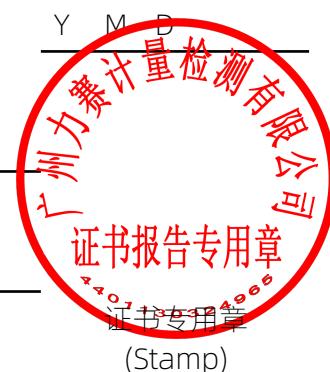
授权签字人:

Approved Signatory

胡中兴

发布日期: 2025-09-19

胡中兴 Issued Date: Y M D



本实验室地址: 广东省广州市番禺区石碁镇农科所南街8号

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我司电子证书具备网站/微信公众号查验(二维码扫码查验)、校验码、电子签章(查验内容是否修改且一致)三重防伪验证。



校准说明

DIRECTIONS OF CALIBRATION

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本实验室质量管理体系符合ISO/IEC17025标准要求。

The quality system is in accordance with ISO/IEC17025.

1. 本实验室出具的数据均可溯源至国际单位制(SI)。

All data issued by this laboratory are traceable to International System of Units(SI)

2. 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" represents "Pass" and "F" represents "Fail" and "N/A" represents "Not Applicable".Where as users should evaluate the effects of MU of calibration results on conformance assessment by actual measurement.

3. 本证书编号具有唯一性,后缀若带有"A~Z"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 "A~Z" 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. 校准地点、环境条件。(Place and environmental condition of the Calibration).

广州实验室(101精测室)

温度(Temperature): 20.3°C 相对湿度 (Relative Humidity): 62 %

5. 未加盖“证书报告专用章”无效,报告无校准或检测、审核、授权签字人签章无效。

The report is invalid without the official stamp, report is invalid without 'report stamp', The report is invalid without the signatures of Approval and Reviewer.

6. 本次校准的技术依据。(Reference documents for the calibration).

JJF (辽) 288-2016 外壳对人和设备的防护检验用试具校准规范 Calibration Specification for Protection of person and equipment by enclosures-Probe for verification

7. 计量溯源性声明:Measurement traceability declaration:

被校器具 (Description): IEC 61032 Standard Articulated Test Probe with 10N Thrust; 被校器具 (Description)

→ 数显推拉力计(Digital Force Gauge) → 力值砝码(9个)(Force Value Weights) → 广州市番禺质量技术监督检测所;

被校器具 (Description) → 影像测量仪(Image Measuring Instrument) → 玻璃线纹尺(Glass line ruler) → 华南国家

计量测试中心(South China National Center of Metrology); 被校器具 (Description) → 数显卡尺(Digital Caliper)

→ 量块/量块(87块)(/Gauge Block) → 华南国家计量测试中心(South China National Center of Metrology)



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8. 本次校准使用的主要计量标准器具。(Main standards of measurement used in the Calibration).

名称/型号 Equipment/Model	出厂编号 Serial No.	证书号/有效期 Certificate No./ Due Date	溯源机构 Traceability Institute	技术特征 Technique Character
数显推拉力计/SBG-10C Digital Fforce Gauge	1C060111	3GC25060218098-21 30 / 2026-07-01	广州力赛计量检测有限公司 (Guangzhou LiSai Metrology & Test Co.,Ltd.)	0.5级
影像测量仪/vGauge 30M15 Image Measuring Instrument	NE-M-14-260	3GC250102161689- 6463 / 2026-01-21	广州力赛计量检测有限公司 (Guangzhou LiSai Metrology & Test Co.,Ltd.)	$U=(1.8+3L/1000)\mu m \quad (k=2)$
数显卡尺/(0~300)mm Digital Caliper	231004161	3GC241202152939- 11581 / 2025-12-30	广州力赛计量检测有限公司 (Guangzhou LiSai Metrology & Test Co.,Ltd.)	(0~70) mm,MPE = $\pm 0.02mm$; (> 70~200) mm,MPE = $\pm 0.03mm$; (> 200~300) mm,MPE = $\pm 0.04mm$

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1、外观以及一般性检查:

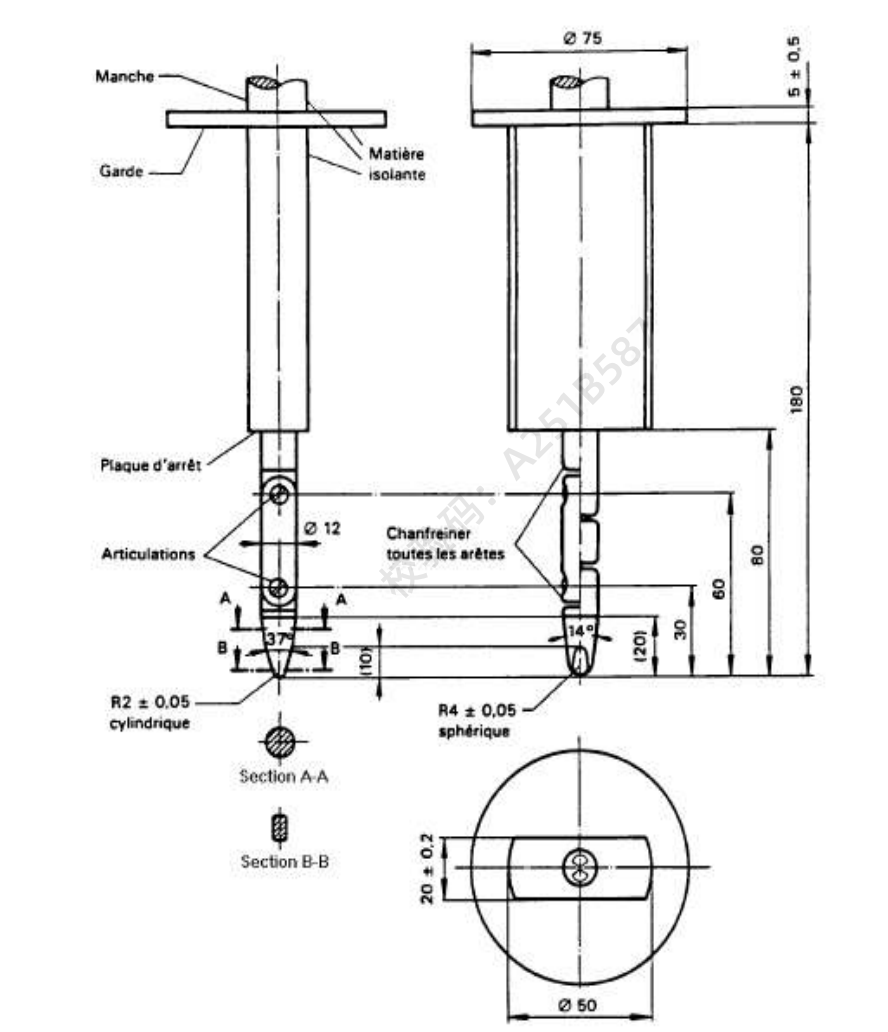
正常

In view of External and Generality check :

Pass

2、尺寸校准(Dimensional calibration):

2.1、示意图 (Diagram)





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2.2、尺寸校准(Dimensional calibration):

标称值	实测值	U	技术要求	结 论
Nominal	Measured	($k=2$)	Requirement	Conclusion
(mm)	(mm)	(mm)	(mm)	(Pass/Fail)
Φ75	75.05	0.04	74.8 ~ 75.2	P
5	5.02	0.03	4.5 ~ 5.5	P
180	180.20	0.04	179.8 ~ 180.2	P
80	80.19	0.04	79.8 ~ 80.2	P
60	60.05	0.04	59.8 ~ 60.2	P
30	29.98	0.03	29.8 ~ 30.2	P
20	19.99	0.01	19.95 ~ 20.00	P
Φ12	11.98	0.01	11.95 ~ 12.00	P
10	9.98	0.01	9.95 ~ 10.00	P
Φ50	50.17	0.04	49.8 ~ 50.2	P
20	20.02	0.03	19.8 ~ 20.2	P
R4	4.03	0.01	3.95 ~ 4.05	P
R2	2.01	0.01	1.95 ~ 2.05	P
37°	36°53'	3'	36°50' ~ 37°00'	P
14°	13°55'	3'	13°50' ~ 14°00'	P

3、*推力校准 (Thrust calibration) :

标称值	实测值	U	技术要求	结 论
Nominal	Measured	($k=2$)	Requirement	Conclusion
(N)	(N)	(N)	(N)	(Pass/Fail)
10	9.9	0.2	9.4 ~ 10.6	P
20	19.7	0.4	18.8 ~ 21.2	P
30	29.6	0.6	28.2 ~ 31.8	P
40	39.3	0.8	37.6 ~ 42.4	P
50	49.2	1.0	47.0 ~ 53.0	P

注：技术要求由客户提供，带*不在我司认可范围



广州力赛计量检测有限公司

Guangzhou LiSai Metrology & Test Co., Ltd.



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附: 关于测量结果不确定度的说明:

appendix: Directions of uncertainty in the calibration

1.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)

2.本报告给出的扩展不确定度是由合成标准不确定度乘以包含概率约为95%时对应的包含因子k得到的。

The expanded uncertainty given in this report is obtained by multiplying the combined standard uncertainty by the corresponding coverage factor k when the coverage probability of about 95%.

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