

校准证书
CALIBRATION CERTIFICATE

证书编号:

Certificate No.



J202511274048B-0002

第 1 页 共 4 页

Page of

委托方

Client

Saudi Standards, Metrology and Quality Organization (SASO)

联络信息

Contact Inf.

Riyadh – Al Muhammadiyah, P.O. Box 3437, Riyadh 11471,
Kingdom of Saudi Arabia

仪器名称

Description

DIGITAL TORSION METER

型号/规格

Model/Type

CH338

制造厂

Manufacturer

LISUN GROUP

出厂编号

Serial No.

JCXWA050018

管理号

Asset No.

接收日期

Receipt Date

2025年12月11日

校准日期

Cal. Date

2025年12月11日

Y M D

发布日期

Issued Date

2025年12月11日

Y M D

批准

Approved by

吴遥

吴遥

审核

Inspected by

陈志祥

陈志祥

校准

Calibrated by

周玉帅

周玉帅

证书专用章

(Stamp)

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扫一扫验真伪

校验码: 825804

校准说明 DIRECTIONS OF CALIBRATION

证书编号: J202511274048B-0002

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: 客户一楼车间
Place
温度: 20.6℃ 相对湿度: 42%
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.)
- JJG 1146-2017 工作扭矩仪检定规程 (Verification Regulaiton of Working Torque-meters) 扭矩: (0.1~5000)N m

校准说明
DIRECTIONS OF CALIBRATION

证书编号: J202511274048B-0002

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
温湿度表 Temperature and humidity meter	570945	J202508261381- 0016 2026-08-25	广电计量检测 (无锡)有限公 司	温度: $U=0.4^{\circ}\text{C}$ ($k=2$), 湿 度: $U=2.0\%\text{RH}$ ($k=2$)
力值砝码	110563	J202505151478- 0029 2026-06-05	广电计量检测 (无锡)有限公 司	$\pm 0.05\%$
力臂	346888 (广电 号)	J202509123403- 0011 2026-09-25	广电计量检测 (无锡)有限公 司	MPE: $\pm 0.1\%$

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

力值砝码(110563)→质量比较仪/Quality comparator(36401221)→E1等级砝码;力值砝码(110563)→质量比较
仪/Quality comparator(36401221)→E1等级砝码/E1 grade weight(江苏省计量科学研究院);
力臂(346888 (广电号))→三坐标测量机/Coordinate measuring machine(7620901CA)→量块(大八块组)
(89017)→量块(大八块组)/Gauge Blocks(70373)→一等量块标准装置(中国测试技术研究院NIMTT);

校准结果
RESULTS OF CALIBRATION

证书编号: J202511274048B-0002

第 4 页 共 4 页

Certificate No.

Page of

1、外观以及一般性检查: 符合要求

In view of External and Generality check :

2、最大扭矩值: 10 (N m) 分度值: 0.01 (N m)

The maximum torque value Resolution

3、方向 Direction	回零差 (%F.S) Zero error (%F.S)	允许误差 (%F.S) MPE (%F.S)	结论 (P/F) Conclusion (P/F)
顺时针 Clock wise	0.0	± 0.5	P
逆时针 Clock athwart	0.0	± 0.5	P

4、扭矩示值校准:

Calibration of Indication:

方向 Direction	标准值 (N m) Reference	测量平均值 (N m) Average	相对误差 (%) Error	示值允差 (%) MPE	示值重复性 (%) Repeatability	重复性允差 (%) MPE	不确定度 $U_{rel}(k=2)$ Uncertainty	结论 (P/F) Conclusion
顺时针 Clock wise	2	2.01	+0.5	± 1.0	0.0	1.0	0.4%	P
	4	4.02	+0.5		0.0		0.4%	P
	6	6.03	+0.5		0.0		0.4%	P
	8	8.03	+0.4		0.1		0.4%	P
	10	10.04	+0.4		0.1		0.4%	P
逆时针 Clock athwart	2	2.00	0.0	± 1.0	0.0	1.0	0.4%	P
	4	3.99	-0.2		0.0		0.4%	P
	6	5.99	-0.2		0.2		0.4%	P
	8	7.98	-0.2		0.1		0.4%	P
	10	9.97	-0.3		0.1		0.4%	P

备注:

Notes:

结论(Conclusion): 所校项目符合1级要求

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 .

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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