



SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY

# 校准证书

#### **CALIBRATION CERTIFICATE**

证书编号(Certificate No.) (代替CJC200963	CJC20096377 307号证书)		第 1 页 Page	ī,共 of	4 页
委托方 Client					
委托方地址 Add. of Client	t				
计量器具名称 Description	IPX3-4S	Pray Nozzl	e		
型号规格 Model/Type	SFT S2-1030				
制造厂 Manufacturer	Safequipment Limited	d			
出厂编号 Serial No.	620F0002				
接收日期 Date of Recei	pt	2009年 Y	10 月 M	20 日 D	

2009年

10 月

批准人 Approved Signatory\_\_\_\_

校准日期

Date of Calibration

族五种

核 验 Inspected by 张玉珍

证书专用章

30日

校 准 Calibrated by

本中心地址:中国广州市广园中路松柏东街30号

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SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY

说明

证书编号 CJC20096377 Certificate No.

#### **DIRECTIONS**

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1. 本中心是国家质量监督检验检疫总局在华南地区设立的国家法定计量检定机构,计量授权证书号是: (国)法计(2007)01043号、(国)法计(2007)01032号。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ) under authorization certificates No.(2007)01043 & (2007)01032.

- 2. 本中心所出具的数据均可溯源至保存在中国计量科学研究院的国家计量基准和国际单位制(SI)。中国计量科学研究院于1999年代表中国签署了"国家计量基标准及国家计量研究院出具的校准和测量证书相互承认协议"。 All data issued by this laboratory are traceable to national primary standards maintained in National Institute of Metrology (NIM) and International System of Units (SI). NIM is the signatory to the Mutual Recognition Arrangement (MRA) for national measurement standards and for calibration and measurement certificates issued by national metrology institutes.
- 3. 本次校准的技术依据:

Reference documents for the calibration:

GB/T 1958-2004 产品几何量技术规范(GPS) 形状和位置公差 检测规定 Geometrical Product Specifications (GPS) Geometrical tolerance Verification prescription

4. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

设备名称/型号 Name of Equipment /Model	编号 Serial No.	证书号/有效期 Certificate No. /Due Date	计量特性 Metrological Characteristic
万能工具显微镜 Universal Measuring Microscopes /19JC	001245	CYY20090030 /2010-02-03	MPE: (1+L/100) μ m
三坐标测量机 Coordinate Measuring Machines /Prismo Navigator 795 HTG	127026	CJC20092263 /2010-05-04	MPE: ± (1+L/400) μ m

5. 校准地点、环境条件:

Place and environmental conditions of the calibration:

地点 本中心精测实验室(P. M. Lab.)

温度 (20.0±1.0) ℃ 相对湿度

<60 %

Place

Temperature

erature

RH

6. 被校准仪器限制使用条件:

Limiting condition of the instrument calibrated:

Note:1. The results relate only to the items calibrated.

注: 1. 本证书校准结果只与受校准仪器有关。

<sup>2.</sup> 未经本中心书面批准,不得部分复制此证书。

<sup>2.</sup> This certificate shall not be reproduced except in full, without the written approval of our laboratory.





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### 校准结果

#### **RESULTS OF CALIBRATION**

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1 外观(Appearance): 合格(Pass)

2 抽检5个(采用△标记)孔径见表1[参考值: Φ0.5 mm]

5 holes sampled were marked with  $\triangle$ , the measured value see table 1 [Nominal value:  $\Phi$  0.5 mm] 表1(Table 1)

序号(NO.)	测量值(Measured value)	扩展不确定度 U <sub>95</sub> Expanded uncertainty
1	Ф 0.57	0.03
2	Ф 0.55	0.03
3	Ф 0.55	0.03
4	ф 0.55	0.03
5	Ф 0.55	0.03

3 抽检5个平面内分度(采用 → 标记)见表2[参考值: 15 °或 30 °]

序号(NO.)	测量值(Measured value)	扩展不确定度 U	
	侧重恒(Measured value)	Expanded uncertainty	
1	29° 46′	10'	
2	29° 48′	10'	
3	14° 52′	10'	
4	14° 54′	10'	
5	14° 53′	10'	

4 抽检两垂直截面分度见表3(A-A'截面)和表4(B-B'截面)[参考值: 6°30']

Section A-A' and section B-B' sampled were marked on nozzle, the measured value see table 3 and table 4 [Nominal value: 6° 30']

表3(A-A' 截面)(Table3 section A-A')

从花酒中心点到A,共6个角度 From the center point to A, total 6 angles measured.	从花洒中心点到A',共6个角度 From the center point to A', total 6 angles measured.	扩展不确定度 U Expanded uncertainty
6° 42′	6° 51′	15′
6° 48′	6° 27′	15′
6° 45′	6° 35′	15′
6° 52′	6° 46′	15′
6° 54′	6° 51′	15′
6° 56′	6° 52′	15'





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### 校准结果

#### RESULTS OF CALIBRATION

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#### 表4(B-B' 截面)(Table4 section B-B')

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从花洒中心点到B′,共6个角度	扩展不确定度 U	
From the center point to $B^\prime$ ,	Expanded uncertainty	
total 6 angles measured.		
6° 51′	15′	
6° 41′	15′	
6° 38′	15′	
6° 51′	15'	
6° 41′	15′	
6° 51′	15′	
	From the center point to B', total 6 angles measured.  6° 51'  6° 41'  6° 38'  6° 51'  6° 41'	

- 5 花洒头直径(Diameter of spray nozzle): φ101.91 mm[参考值(Nominal value): φ102 mm]
- 6 花洒头球表面圆弧半径(Radius o f sphere for spray nozzle):75.81 mm

[参考值(Nominal value): 75.5 mm]

7 测量结果的扩展不确定度: 花洒头直径: U=0.05 mm, 圆弧半径: U=0.10 mm, 其余见表格, 包含因子: k=2

[依据 JJF1059-1999 测量不确定度评定与表示]

According to JJF 1059-1999 Evaluation and Expression of Uncertainty in Measurement,

Expanded uncertainty of measuring results: For diameter of spray nozzle: U=0.05 mm, for radius of sphere

for spray nozzle: U=0.10 mm, Cover factor: k=2

#### 说明(Note):

- 1 CJC20096307 号校准证书作废[Calibration certificate (No. CJC20096307) become invalid]
- 2 建议校准周期不超过 1 年(The period of calibration advised within one year)