



校准证书

CALIBRATION CERTIFICATE

证书编号 CDP202007382
Certificate No.

第 1 页, 共 4 页
Page of

委托方
Client

委托方联络信息
Contact Information

计量器具名称 卡尺检测规 (步距规)
Description Caliper Checker

型号/规格
Model/Type

制造厂 Mitutoyo
Manufacturer

出厂编号
Serial No.

设备管理编号
Equipment No.

接收日期 2020 年 07 月 24 日
Date of Receipt Y M D

结果 见校准结果
Results Shown in the results of calibration

校准日期 2020 年 08 月 06 日
Date of Calibration Y M D

批准人

Approved Signatory

张勇

张勇

核 验

Reviewed by

郑智杰

郑智杰

校 准

Calibrated by

王时礼

王时礼

证书专用章
Stamp



扫一扫查真伪



说 明

证书编号 CDP202007382
Certificate No.

DIRECTIONS

第 2 页, 共 4 页
Page of

1. 本中心是国家市场监督管理总局在华南地区设立的国家法定计量检定机构, 本中心的质量管理体系符合 ISO/IEC 17025:2017 标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the State Administration for Market Regulation. The quality system is in accordance with ISO/IEC 17025:2017.

2. 本中心所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 this laboratory are traceable to national primary standards and International System of Units (SI).

3. 校准地点、环境条件:

Place and environmental conditions of the calibration:

地点 本中心长度实验室

Place (Length Lab.)

温度 $(20.0 \pm 1.0) ^\circ\text{C}$

Temperature

相对湿度 $(45 \pm 5) \%$

R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

JJF1258-2010 步距规校准规范 C.S. for Step Gauges

5. 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/型号规格 Name of Equipment /Model/Type	编号 Serial No.	证书号/有效期/溯源单位 Certificate No./Due Date /Traceability to	计量特性 Metrological Characteristic
三坐标测量机 Coordinate Measuring Machines /Prismo Navigator 795 HTG	127026	CJC201915399 /2020-08-15 /本中心	综合误差: $\pm(1+L/400)\mu\text{m}$ MPE: $\pm(1+L/400)\mu\text{m}$
量块 Gauge Blocks /(125~500)mm	94646	CDL202000061 /2021-01-09 /本中心	3等1级 Order 3, Grade 1

注: 1. 本证书校准结果只与受校准仪器有关。The results relate only to the items calibrated.

Note: 2. 未经本机构书面批准, 不得部分复制此证书。This certificate shall not be reproduced except in full, without the written approval of our laboratory.

3. “委托方”、“委托方联络信息”由委托方提供, “制造厂”、“型号规格”、“出厂编号”以及“设备编号”为仪器上标注。The information Client and Contact Information are provided by client, and the Manufacturer, Model/Type, Serial No. and Equipment No. are marked on the items.

4. 本次校准日期视为发布日期。The calibration date is the date of issue of the certificate.



校准结果

RESULTS OF CALIBRATION

证书编号: CDP202007382
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原始记录编号: 020200038
Record No.

第 3 页, 共 4 页
Page of

1 外观检查: 符合要求

Apparent inspection: Pass

2 块规节距长度偏差和平行度: 见表1

Deviation of dimension and parallelism of blocks: Shown in table 1

表 1/Table 1

外尺寸/Outside			内尺寸/Inside		
标称值 L (mm) /Normal Value	偏差(μm) /Deviation	平行度(μm) /Parallelism	标称值 L (mm) /Normal Value	偏差(μm) /Deviation	平行度(μm) /Parallelism
20	+0.1	0.4	330	+0.5	0.4
50	+0.6	0.4	300	0.0	0.1
100	+0.3	0.5	250	+0.3	0.2
150	-0.1	0.4	200	+0.7	0.1
200	-0.7	0.4	150	+1.2	0.3
250	-0.4	0.5	100	+0.9	0.1
300	-0.4	0.5	50	+0.9	0.1
330	-0.3	0.6	20	+0.8	0.2

说明/Note:

1 块规节距长度偏差测量结果扩展不确定度: $U_{95}=1.2\mu\text{m}+3.0\times 10^{-6}L$ L -标称值

Expanded uncertainty related to deviation of dimension of blocks

包含因子: $k_{95}=2$

Coverage factor

本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度评定与表示》评定, 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。

The expanded uncertainty given in this certificate is evaluated according to JJF 1059.1-2012 *Evaluation and Expression of Uncertainty in Measurement*, which is obtained by multiplying the combined standard uncertainty by the coverage factor k corresponding to the coverage probability of about 95%.

2 出厂精度/Accuracy

尺寸精度: 300mm 范围内 $\pm 0.005\text{mm}$; 600mm 范围内 $\pm 0.007\text{mm}$

Block pitch accuracy: $\pm 0.005\text{mm}$ for range up to 300mm; $\pm 0.007\text{mm}$ for ranges up to 600mm

块规的平行度: 300mm 范围内 0.002mm; 600mm 范围内 0.004mm

Parallelism of blocks: 0.002mm for range up to 300mm; 0.004mm for ranges up to 600mm

3 校准结果符合性判定依据 JJF1094-2002《测量仪器特性评定》之 5.3.1 和仪器说明书技术要求。

Decision rules of conformity are JJF1094-2002 *Evaluation of the Characteristics of Measuring Instruments* (5.3.1) and technical requirements in the manual.



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第 4 页, 共 4 页
Page of

- 4 由于复校时间间隔的长短由仪器使用情况、使用者、仪器本身质量等诸因素所决定的, 因此, 送校单位可根据实际情况自主决定复校时间间隔。建议不超过1年。更换重要部件、维修或对仪器性能有怀疑时, 应及时校准。

Since the calibration interval is depended on a number of factors, such as the use of the instrument, operation of the user, and the quality of the instrument itself, the next calibration date can be decided by the user according to the actual use. Next calibration for this instrument is proposed within 1 year. When replacing important parts, repairs, or doubts about the performance of the instrument, it should be calibrated in time.
