



## Calibration Certificate

**CERTIFICATE NO.** : MCL/2017/1022

**Customer Ref** : PO-221-29      **Job Order Number** : 2017/098

**Customer** : M/s.ST Badminton Academy      **Date of Calibration** : 2-1-2017  
Jurong West Avenue 3  
Singapore 641 274      **Next Calibration** : 3-7-2017

**Description** : Professional Tension Head (Stringing Machine)

**Manufacturer** : Tennis Head

**Model** : 2086 PROFESSIONAL

**Serial Number** : US22761127      **Ambient Temperature** : (23 ±3) °C

**Accuracy** : ±0.01lbs      **Relative Humidity** : (35 to 70) % RH

**Calibration Range** : 22 - 30lbs      **Calibration Procedure** : MCL/WI/M-10

Mirai Calibration Laboratory is accredited in accordance with the international standard ISO/IEC 17025:2005, therefore the operation has been duly accredited and is compliant to the requirements of ISO9001:2008 Quality Management Systems. The Reference Standard used are traceable to recognised National or International Standards.

### Traceability Reference Standard

Description	Model	Serial number
TTT Display Instrument	43228	65893
Flange Mount Transducer	50674.LOG	75934
	50676.LOG	66322

### Remarks:

1. The Expanded uncertainty is 2.0 % of reading estimated at a level of confidence of approximately 95%. With K = 2
2. The Calibration Certificate shall not be reproduced in part or full unless prior written approval has been given by MCL.
3. The user should determine the suitability of the instrument for its intended use.

Calibrated by

Soe Moe



Approved by

Robert Kee  
Quality Manager

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### CALIBRATION RESULTS

Set Value lbs	Mean Instrument Reading lbs					Standard Deviation lbs	Deviation lbs
	R1	R2	R3	R4	R5	Mean	%
22.0	22.0	22.0	22.0	22.1	22.1	22.0	0.1
23.0	23.1	22.9	23.0	22.9	23.0	23.0	0.1
24.0	24.1	24.1	24.0	24.1	24.1	24.1	0.0
25.0	25.1	25.0	24.9	24.9	24.9	25.0	0.1
26.0	26.1	26.1	26.1	26.1	26.1	26.1	0.0
27.0	27.0	27.0	26.9	26.9	27.0	27.0	0.1
28.0	28.1	28.1	27.9	28.0	28.0	28.0	0.1
29.0	29.1	29.0	28.9	29.1	29.0	29.0	0.1
30.0	30.1	30.1	30.1	30.1	30.2	30.1	0.0

#### Repeatability Test

Feature Inspected	Maximum Difference ( lbs )
Pull	0.1

**Note:** The acceptance tolerance for the above equipment is  $\pm 0.2$  lbs specify by customer. Calibration carried according to ISO 6789:2003 (Type II) as a guide.

#### Final Result

As Found : **Pass**

