Cal~Rite Corporation

1665 QUINCY AVENUE, UNIT 103, NAPERVILLE, IL 60540
P 630.355.1522 F 630.355.1544 WWW.CAL-RITE.COM

Certificate Of Calibration

Equipment Calibration was performed at the address below for

[redacted], INC

[redacted]

Authorized By NH

ACCREDITED

Certificate # 866.01
Calibration

Date of Calibration

Thursday, March 28, 2024

Issue Date:

3/29/2024

Machine Profile

Manufacturer:	*TensileMill*	**Capacity:**	*67000*	**Next Cal:**	*28-Mar-2025*
Model:	[redacted]	**Serial #:**	[redacted]	**Customer #:**	*31*

Force Calibration Results

Language: lbs **ASTM Accuracy +/-: 1.0 %**

Range Capacity	Verified Range Force	Uncertainty %	Maximum Error %
67000	670 - 67000	0.25	-0.416

Cal-Rite Corporation has calibrated the testing equipment described above in accordance with ISO/IEC 17025:2017, ANSI/NCSL Z540-1-1994 and 10-CFR-21. All elastic verification devices have been calibrated in accordance with ASTM E74 practices and are traceable to the International System of Units (SI) through NIST. Computed forces have been temperature corrected as necessary.
The uncertainty of the calibration process was estimated approximately at the 95% confidence level (k=2).
When a decision rule is stated in the governing specification, the prescribed decision rule was used in the pass/fail determination unless otherwise noted. In all other cases where a statement of conformance is made, the determination of conformance is made solely on the measurements falling in or out of the applied tolerance. Measurement uncertainty is stated, but not used to determine pass/fail status.
This certificate relates only to the item calibrated.
The equipment listed above has met all applicable clauses of the governing specification unless noted below:
- All force verification devices have been calibrated in accordance with ASTM E74 practices and used within the certified Class A range.
- Computed forces have been temperature corrected as necessary

☐ 11.1 Lower Limit below 200X Resolution

☐ 11.3 Less than 5 readings taken below 10% FS

☐ 11.5 Does not return to zero in 30 seconds

☐ 18.4 Does not meet +/- 1 % accuracy requirement.

Specification: **ASTM E 4-21**

QMS Revision: **3.01**

Service Comments: Verified proper operation of machine. Calibrated force in accordance with ASTM standards. All readings found and left within tolerance and repeatable. Machine is in good condition and functioning properly at this time.

As Found Condition: In Tolerance

Calibration Procedure: CR100 Rev 16

Calibration Method: Follow the Force

Software Version: MaxTest 7.79

Service Order #: 11-02-2016

A. RIZZO

SERVICE ENGINEER

Cal-Rite Corporation
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ACCREDITED
Certificate # 866.01
Calibration

[redacted]

Calibration Date: 28-Mar-2024
Next Calibration: 28-Mar-2025
Customer #: 31
Temp/Humidity: 69.4 F/60.8 %

Manufacture: TensileMill
Model: [redacted]
Indicator: PC

Capacity: 67000
Serial #: [redacted]
Shunt #: 23.14

Test Direction: TENSION
External Cell: 34037757
Temp Variance: 0.5

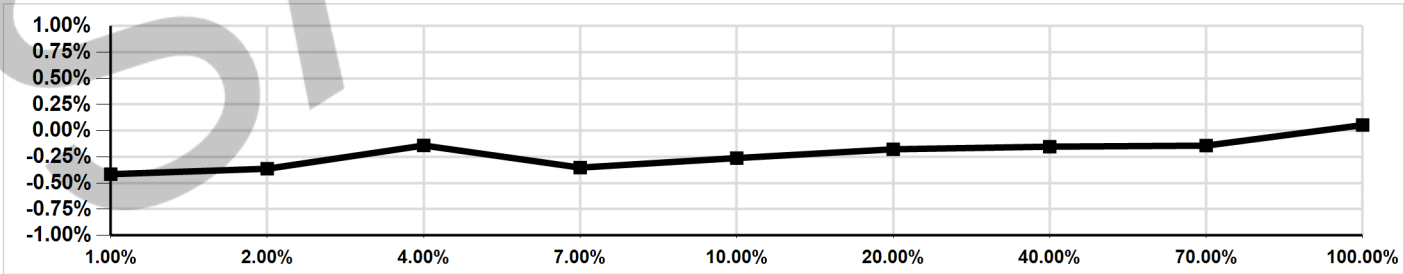
ASTM REPORT

Range: 67,000.00 lbs **Resolution 1 lbs** **Accuracy: +/-: 1.0 %** **Uncertainty: 0.29%**

Readout UUT	As Found	As Adjusted	As Left	Repeat %	Max Error	Error %
0.0	0.0	0.0	0.0	0.000	0.000	0.000
670.0	672.5	0.0	672.8	-0.045	-2.800	-0.416
1,340.0	1,344.4	0.0	1,344.9	-0.037	-4.900	-0.364
2,680.0	2,683.3	0.0	2,683.8	-0.019	-3.800	-0.142
4,690.0	4,703.6	0.0	4,706.6	-0.064	-16.600	-0.353
6,700.0	6,717.6	0.0	6,716.0	0.024	-17.600	-0.262
13,400.0	13,420.0	0.0	13,423.9	-0.029	-23.900	-0.178
26,800.0	26,832.3	0.0	26,841.1	-0.033	-41.100	-0.153
46,900.0	46,946.7	0.0	46,967.3	-0.044	-67.300	-0.143
67,000.0	66,964.4	0.0	66,987.3	-0.034	35.600	0.053

Zero Return: **0.010%** **0.000%** **0.000%**

Linearity Profile (Percent Full Scale)



Calibrating Apparatus Used

Manufacture	Serial Number	Capacity	Class A	Cal Date	Cal Due	Calibrated By
MOREHOUSE	C-8314(HI)	10,000	452	1/16/2024	1/16/2025	MOREHOUSE
TOVEY	125891A	135,000	2700	1/10/2024	1/10/2025	TOVEY

☑ SPECIFICATION COMPLIANT ☐ REPAIRED ☐ ADJUSTED CONDITION: Good

☐ 7.3 Interchangeability Established

Service Order #: 11-02-2016

A. RIZZO
SERVICE ENGINEER