



PREVENTATIVE MAINTENANCE INSPECTION

CUSTOMER			SERVICE DATE SERVICE CALL TECHNICI		TECHNICIAN			
		5/15/2025						
MANUFACTURE	MODEL			SERIAL NUMBER			DRIVE TYPE	
	WAW-600KN						HYDRAULIC	
INDICATORS / ELECTRONICS		٧	CONDITION			COMM	IENTS	
> Inspect all incoming power cables and disconnects		\checkmark	GOOD	>				
> Check digital displays and proper illur	mination	✓	GOOD	>				
> Check all power supplies and intercor	nnecting cables	✓	GOOD	>				
>				>				
WEIGHING SYSTEM	15	٧	CONDITION			COMM	IENTS	
> Inspect all cables and connectors		✓	GOOD	>				
> Check for proper mounting of load ce	ll / transducer	✓	GOOD	>				
> Check display for stable readings at z	ero load	7	GOOD	>				
> Inspect transducer and load cell		7	GOOD	>				
>				>				
LOAD FRAMES		٧	CONDITION			COMM	IENTS	
> Inspect crosshead for parallelism		▽	GOOD	>				
> Ensure all column / x-head nuts are ti	ght	V	GOOD	>				
> Inspect for proper backlash settings			GOOD	>				
> Inspect grip pockets for wear / damag	je .	V	GOOD	>				
> Inspect for hydraulic leaks (all hoses		V	GOOD	>				
>			SELECT	>				
HYDRAULIC SYSTEM	/IS	٧	CONDITION			COMM	IENTS	
> Inspect for oil leaks and reservoir oil l	evel	V	GOOD	>				
> Check pump motor drive belt tension	/ wear	7	GOOD	>				
> Check all inter-connecting cables		$\overline{\mathbf{A}}$	GOOD	>				
> Check crosshead and pump start con	tactors	V	GOOD	>				
>			SELECT	>				
ELECTRO-MECHANICAL S	YSTEMS	٧	CONDITION			COMM	IENTS	
> Verify proper motor operation			N/A	>				
> Lubricate all chain drive systems and	check tension		N/A	>				
> Inspect drive belts for wear and prope	er tension		N/A	>				
> Inspect clutch operation and proper v	oltage		N/A	>				
>			SELECT	>				
SAFETY AND LIMIT SYSTEMS		٧	CONDITION			COMM	IENTS	
> Verify proper operation of limit switch systems		7	GOOD	>				
> Check E-Stop disables drive system		~	GOOD	>				
> Inspect protective enclosure for wear	/ damage	7	GOOD	>				
> [SELECT	>				
	SUGGESTEI	RECO	MMENDAT	IONS		_		
> The machine was recently installed a	nd is in good condition	at this	time.					
>								
>								

NOTE: Preventative maintenance was performed on the equipment listed above by a Cal-Rite field service technician. Items that have been inspected will be checked and comments will be added if required.



Certificate Of Calibration

Equipment Calibration was performed at the address below for







Certificate # 866.01

Calibration

Issue Date:

05/23/2025

Wednesday, May 14, 2025

Date of Calibration

Machine Profile

Capacity: 600

Next Cal: Customer #: 14-May-2026

Manufacturer: Model:

Serial #:

Force Calibration Results

Language: kn

ASTM Accuracy +/-: +/-1.0%

Range Capacity	Verified Range Force	Uncertainty %	Maximum Error %
600	6 - 600	0.25	0.158

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

- Computed forces have been temperature corrected as necessary

11.1 Lower Limit below 200X Resolution	11.5 Does not return to zero in 30 seconds
11.3 Less than 5 readings taken below 10% FS	18.4 Does not meet +/- 1 % accuracy requirement.
Specification: ASTM E 4-24	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. No adjustments made. The machine is in good condition and functioning properly at this time.

As Found Condition: Initial Calibration Calibration Procedure: CR100 Rev 17

Calibration Method: Follow the Force Software Version: MaxTest 7.48

Service Order #:

SERVICE ENGINEER

As a mutual protection to the purchaser, the public, and ourselves, all Cal-Rite calibration reports are submitted as the confidential property of the purchaser, and any authorization for publication of statements, conclusions, or extractions from or regarding our reports is reserved pending our prior written approval

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Calibration Date: 14-May-2025

Next Calibration: 14-May-2026

Customer #: N/A

Temp/Humidity: 68.9 F/68.5 %

Manufacture:Capacity: 600Test Direction:UniversalModel:Serial #:External Cell:N/AIndicator:PCShunt #:N/ATemp Variance:0.5

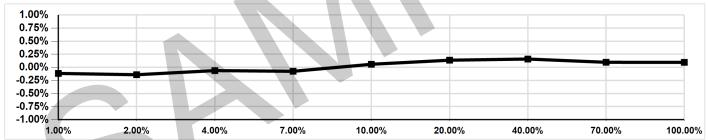
ASTM REPORT

Range: 600.00 kn Resolution 0.01 kn Accuracy: +/-: +/-1.0% Uncertainty: 0.25%

Readout UUT	As Found	As Adjusted	As Left	Repeat %	Max Error	Error %
0	0.000	0.000	0.000	0.000	0.000	0.000
6.00	6.001	0.000	6.007	-0.100	-0.007	-0.117
12.00	11.985	0.000	12.017	-0.267	-0.017	-0.142
24.00	23.996	0.000	24.015	-0.079	-0.015	-0.063
42.00	42.015	0.000	42.032	-0.040	-0.032	-0.076
60.00	59.965	0.000	60.019	-0.090	0.035	0.058
120.00	119.837	0.000	119.875	-0.032	0.163	0.136
240.00	239.622	0.000	239.689	-0.028	0.378	0.158
420.00	419.757	0.000	419.599	0.038	0.401	0.096
600.00	599.754	0.000	599.436	0.053	0.564	0.094

Zero Return: 0.000% 0.000% 0.000%

Linearity Profile (Percent Full Scale)



Calibrating Apparatus Used

Manufacture	Serial Number	Capacity	Class A	Cal Date	Cal Due	Calibrated By
TOVEY	125891A	135,000	4963	4/22/2024	4/22/2026	TOVEY
TOVEY	128634A	10,000	200	1/20/2024	1/20/2026	TOVEY
MANTRACOURT	17062451	4	0	2/26/2025	6/26/2025	CAL-RITE

☑ SPECIFICATION COMPLIANT	☐ REPAIRED	☐ ADJUSTED	CONDITION: Good
☐ 7.3 Interchangeability Established			
Service Order #:			SERVICE ENGINEER

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